

WHAT IS CLAIMED IS

1. A contact pin mounted to a socket body into which an electrical part is accommodated and adapted to electrically connect a terminal of the electrical part to a printed circuit board, said contact pin comprising:

a plunger electrically contacting the electrical part;

a bottom contact portion electrically connected to the printed circuit board; and

a spring urging the plunger and the bottom contact portion so as to separate from each other;

wherein at least one of the plunger and the bottom contact portion is formed by press-working a plate member and one of the plunger and the bottom contact portion is provided with a connection portion to which the other one thereof is connected to be relatively movable.

2. The contact pin according to claim 1, wherein said other one of the plunger and the bottom contact portion is a plunger having a rod-shaped portion which is formed to be relatively slidable with respect to the connection portion of the bottom contact portion.

3. The contact pin according to claim 1, wherein said one of the plunger and the bottom contact portion is a bottom contact portion having the connection portion of a tubular structure positioned on an upper side of the plunger, and the bottom contact portion has a lower

contact portion contacting the printed circuit board having a center line in alignment with a center line of the plunger.

4. The contact pin according to claim 1, wherein said other one of the plunger and the bottom contact portion has a portion projecting through the connection portion and a coming-off prevention portion is provided for the projecting portion.

5. The contact pin according to claim 1, wherein said one of the plunger and the bottom contact portion is the bottom contact portion provided with the connection portion and said other one of the plunger and the bottom contact portion is the plunger having a flanged portion, and said spring is disposed between the flanged portion of the plunger and the connection portion of the bottom contact portion.

6. The contact pin according to claim 5, wherein at least one of the flanged portion and connection portion has an inclined surface to which the spring is contacted.

7. A socket for an electrical part having a socket body to which the contact pin according to claim 1 is arranged, wherein said socket body has an upper portion to which a top plate is disposed and a lower portion to which a bottom plate is disposed, the plunger of the contact pin has a flanged portion which is inserted through the top plate to be vertically movable and the bottom contact portion is

inserted through the bottom plate.

8. The socket for an electrical part according to claim 7, wherein said plunger has an upper coming-off prevention portion which abuts against a lower surface of the top plate and said bottom contact portion has a lower coming-off prevention portion which abuts against an upper surface of the bottom plate to thereby restrict vertical movement of the contact pin.
9. The socket for an electrical part according to claim 7, wherein a middle plate is further arranged between the top plate and the bottom plate, and the connection portion is inserted and guided through the middle plate so as to be vertically movable.
10. The socket for an electrical part according to claim 9, wherein said bottom contact portion is formed with a connection portion, to which an engaging piece is formed so as to limit an upward movement of the bottom contact portion in engagement with a lower surface of the middle plate.
11. A socket for an electrical part having a socket body to which the electrical part is accommodated and to which a contact pin is arranged to electrically connect a terminal of the electrical part to a printed circuit board, said socket body is provided with a frame-shaped base member, a contact pin assembly, including the contact pin, mounted to be detachably thereto, and a lock means for

securing the contact pin assembly to the base member, said lock means being operated from an upper side thereof.

12. The socket for an electrical part according to claim 11, wherein said contact pin assembly includes a plurality of plates disposed vertically with a predetermined distance, and said lock means is disposed between the vertically arranged plates and includes a lock member to be rotatable from the upper side thereof, said lock member being provided with an engagement piece projecting substantially horizontally, and said engagement piece being engaged with an engaging portion formed to the base member when the lock member is rotated.

13. The socket for an electrical part according to claim 11, wherein said contact pin assembly includes top, middle and bottom plates disposed vertically, said bottom and middle plates being arranged with a predetermined distance, said top plate being disposed to be vertically movable with respect to said middle plate and being urged upward.

14. The socket for an electrical part according to claim 13, wherein said middle plate is positioned in the vertical direction with respect to the base member.

15. A socket for an electrical part having a socket body to which the electrical part is accommodated and to which a contact pin is

arranged to electrically connect a terminal of the electrical part to a printed circuit board, said socket body is provided with a frame-shaped base member, and a contact pin assembly, including the contact pin, mounted to be detachably thereto, said contact pin assembly being inserted, to be detachable, from an upper portion with respect to the base member.

16. The socket for an electrical part according to claim 15, wherein said contact pin assembly is mounted to a predetermined position with respect to the printed circuit board and said base member is arranged to be horizontally adjustable in position with respect to the contact pin assembly.

17. A socket for an electrical part for establishing an electrical connection between a terminal of the electrical part and a printed circuit board, comprising:

- a socket body to which a number of contact pins are arranged;
- a base member disposed to the socket body;
- a contact pin assembly provided with the contact pin and secured to the base member by a lock means;
- an open/close member arranged to the base member to be rotatable; and
- an operation member operating the open/close member to be rotatable,
- said contact pin assembly including a plurality of plates disposed vertically with a predetermined distance, and

said contact pin comprising a plunger electrically contacting the electric part, a bottom contact portion electrically connected to the printed circuit board, and a spring urging the plunger and the bottom contact portion so as to separate from each other, wherein at least one of the plunger and the bottom contact portion is formed by press-working a plate member, said bottom contact portion being provided with a connection portion to which the plunger is connected, and said plunger having a rod-shaped portion which is formed to be relatively slidable to the connection portion of the bottom contact portion.